



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

RB23007638
Job Sheet 178452



Part No: RB23007638

Job Qty: 1 ea

Part Name: Fuel Injector Wrench



Part Weight: 0 lbs

Status: Scheduled

Priority: High

Job Created: 5/31/18

Job Tracking No:

Due Date: 7/3/18

Created By: Logan David

Type: SOLD

Description:

Note: IPP Rev A 17.11.03 New issue DP Verify DD

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	1 Ea		7/3/18	0.00	0.00	Start Up Small Fab-2		MCC
110	Small Fab	1 pcs		7/3/18	0.00	0.20	Small Fab		MCC DAS
120	QC	1 pcs		7/3/18	0.00	0.00	QC5		38
130	Packaging	1 pcs		7/3/18	0.00	0.00	Packaging3		MCC 4-80
140	QC21-SA	1 Ea		7/3/18	0.00	0.00	QC21		

Part Op
Descriptions: 110 - -Assemble as per DWG. Sheet 1

DAS
21
9-89

NOV 09 2018

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
3896T31	Ferule 1/16 X 3/8" - Aluminum	2 Ea (2 ea)	90-Start up Operation	5038398
CL-2-C	Lanyard Wire	1 ft (1 ea)	90-Start up Operation	5119833
RB23007638-1	Wrench	1 Ea (1 ea)	90-Start up Operation	5119830
RB23007638-3	Cap, Modified	1 Ea (1 ea)	90-Start up Operation	5094933

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
90-Start up Operation	3896T31	2	644	0
	CL-2-C	1	300	0
	RB23007638-1	1	0	0
	RB23007638-3	1	0	0

Part Specifications



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL.: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

t be found.

Plex 7/6/18 10:35 AM Dart.lajeunesse.marie

Container No: S126379



Part: RB23007638

Job No: 178452

Serial No/Batch: S126379

Revision: 3

Inspector:

Exp Date:

Instructions:

Date: 11/09/18

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

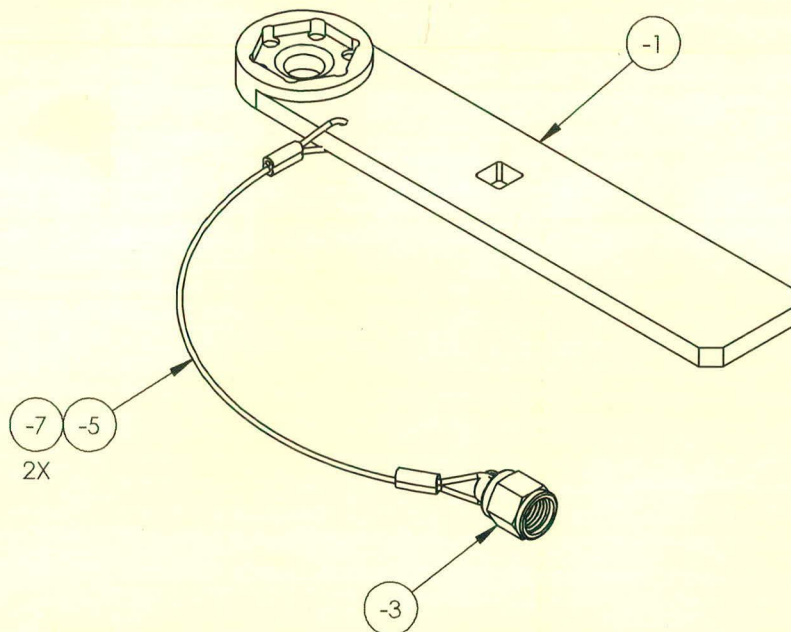
QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval	
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		TOOL UPDATED FOR MODERN MANUFACTURE; SUPERCEDES WRENCHES: 269T9218, 23002215, & OLD 23007638.	9/25/2003	-	-
2		CHANGED DASH No'S: CABLE WAS -1, CAP WAS -2, & WRENCH WAS -3. ALSO IMPLEMENTED NEW BOM, TITLEBLOCK, & REV. TABLE.	11/20/2007	WP	DW
3	15-0471	UPDATED TO NEW DRAFTING STANDARDS. ADDED USED ON NOTE. -1 CH'D DIMS WAS .375-.378 IS 2X .378-.383, WAS .505 MIN IS 2X .505 MIN, WAS R.75 IS Ø1.50. ADDED ENGRAVE NOTE. -3 ADDED DRAWING. -5 ADDED B/O REF. #CL2-C. -7 ADDED B/O REF. #3896T31. CH'D TOLERANCES ON NON-CRITICAL DIMENSIONS.	1/5/2016	DPD	JAG



NOTE:

1. REPLACES ROLLS ROYCE 23002215 AND SCHWEIZER 269T9218.
2. USED ON SCHWEIZER, ALLISON, ROLLS ROYCE.

DART AEROSPACE	
TITLE WRENCH - FUEL INJECTOR	
DWG NO. RB23007638	REV 3
MAT'L HEAT TREAT FINISH	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± 5° .X ± .1 SURFACES = 125/√
SPEC	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
DRAWN BY: COLE	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
CHECKED: MACKOVJAK	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
OPPS APPR: ANDERSON	USED ON MODEL
QA APPR: LINDSAY	SEE NOTE 2
APPROVED: GILBERT	
SCALE 1:2	DATE 8/25/2003
SHEET 1 OF 3	

ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
			-1	1	WRENCH	4140/4142		2
			-3	1	CAP	ALUMINUM	AN929-4 MODIFIED	3
		B/O	-5	1	CABLE	COATED STEEL	Ø1/16 X 9 (CARR LANE #CL2C)	1
		B/O	-7	2	FERRULE	ALUMINUM	Ø1/16 X 3/8 (MCMASTER-CARR #3896T31)	1

DQA: _____ Date: _____



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